

WHAT IS CLAIMED IS:

1. A differentially sectioned sensing rotary disc, comprising:

a ring body having a plurality of positioning grooves and a plurality of sensing switches on its outer circumference, wherein each of the sensing switches is provided between every two adjacent positioning grooves; and

a ring-shaped knob coaxially surrounding the ring body and formed with at least one protrusion on its inner circumference, the protrusion corresponding in position to one of the positioning grooves on the ring body such that when the knob is turned, the protrusion on the knob is moved from the corresponding positioning groove to an adjacent one of the positioning grooves and actuates the sensing switch between the two adjacent positioning grooves so as to achieve differentially sectioned actuation of the sensing switches.

2. The differentially sectioned sensing rotary disc of claim 1, wherein the knob is capable of returning to its starting position via an elastic member.

3. The differentially sectioned sensing rotary disc of claim 2, wherein the elastic member is a spring.

4. The differentially sectioned sensing rotary disc of claim 1, wherein the sensing switch is a spring-actuated switch.

5. The differentially sectioned sensing rotary disc of claim 1, wherein the knob is capable of being turned clockwise or counterclockwise to actuate the sensing switches.

6. The differentially sectioned sensing rotary disc of claim 1, wherein an operating panel is provided at the center of the ring body.

7. The differentially sectioned sensing rotary disc of claim 6, wherein the operating panel comprises a plurality of contact switches.

8. The differentially sectioned sensing rotary disc of claim 7, wherein the plurality of contact switches comprise a confirmation button at the center and four direction buttons

around the confirmation button.

9. The differentially sectioned sensing rotary disc of claim 1, wherein a joystick mechanism is provided at the center of the ring body, with a plurality of contact switches formed underneath the joystick mechanism and capable of being actuated by the joystick mechanism.

10. The differentially sectioned sensing rotary disc of claim 1, wherein the sensing switches are connected to a display unit that displays an actuation status of the sensing switches.

11. The differentially sectioned sensing rotary disc of claim 10, wherein the display unit comprises a plurality of light-emitting diodes (LEDs).

12. The differentially sectioned sensing rotary disc of claim 10, wherein the display unit is a liquid crystal display (LCD).